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Applicant(s): Karsten Schulz, et al.
TRANSFORMATIONS BETWEEN PRIVATE AND SHARED

WORKFLOWS

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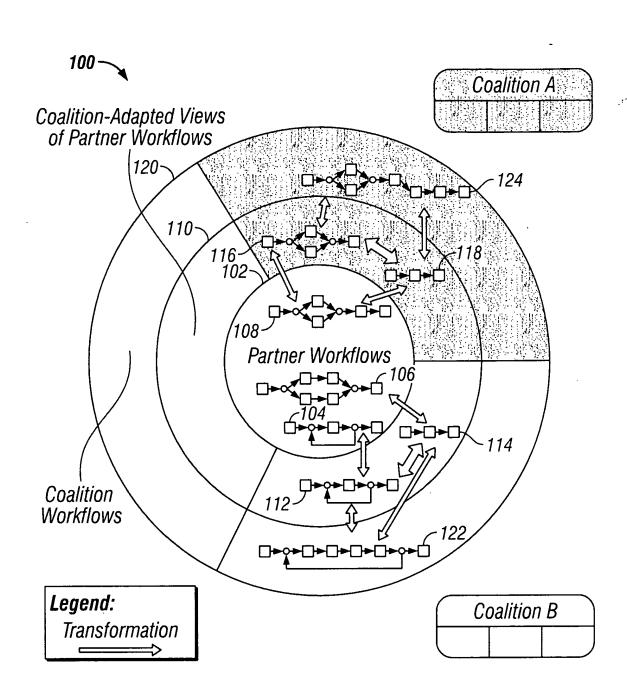
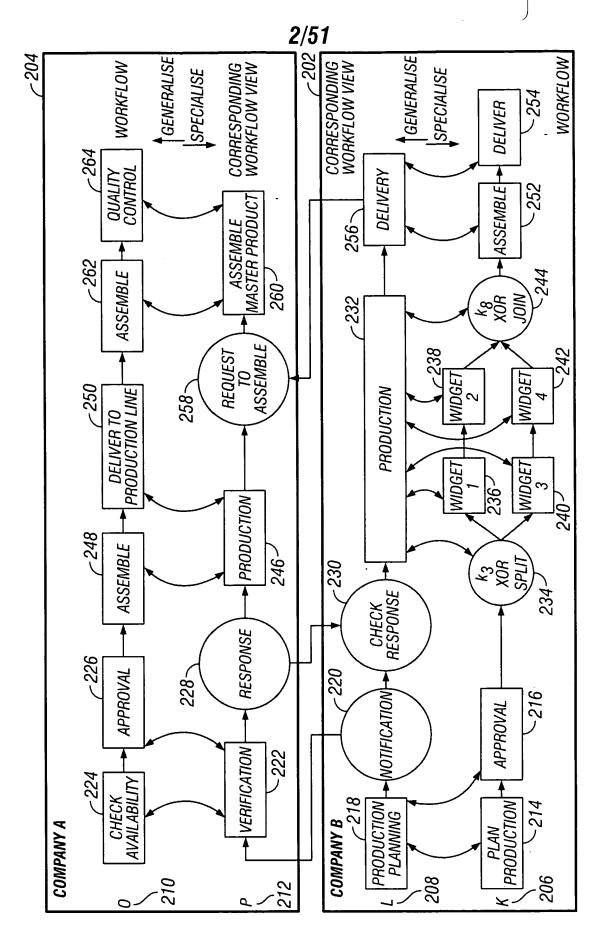


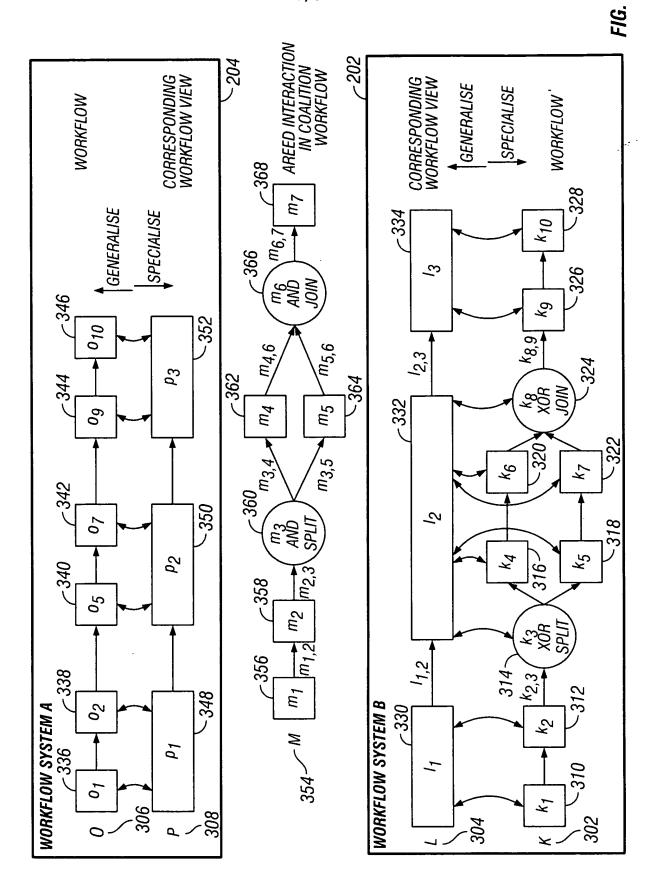
FIG. 1

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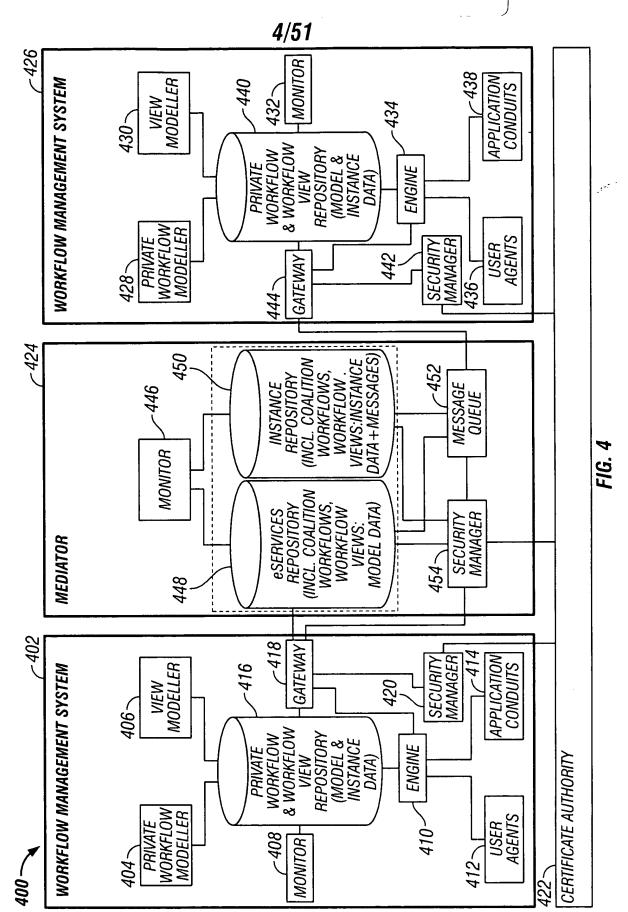
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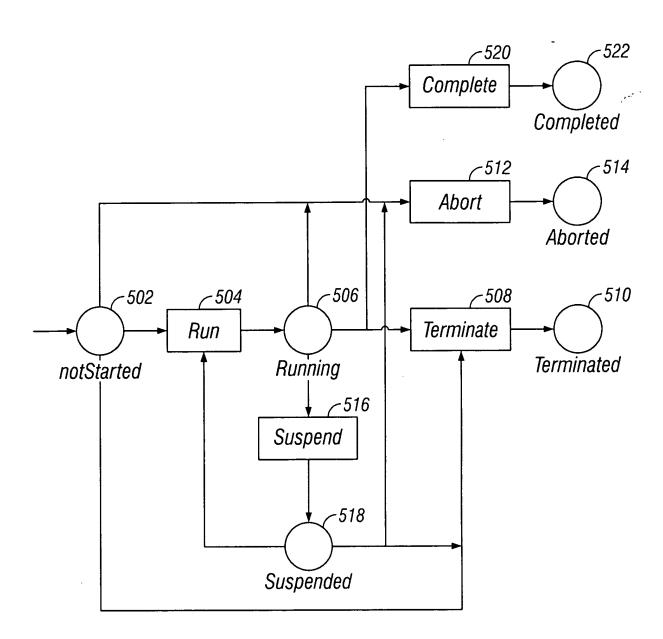
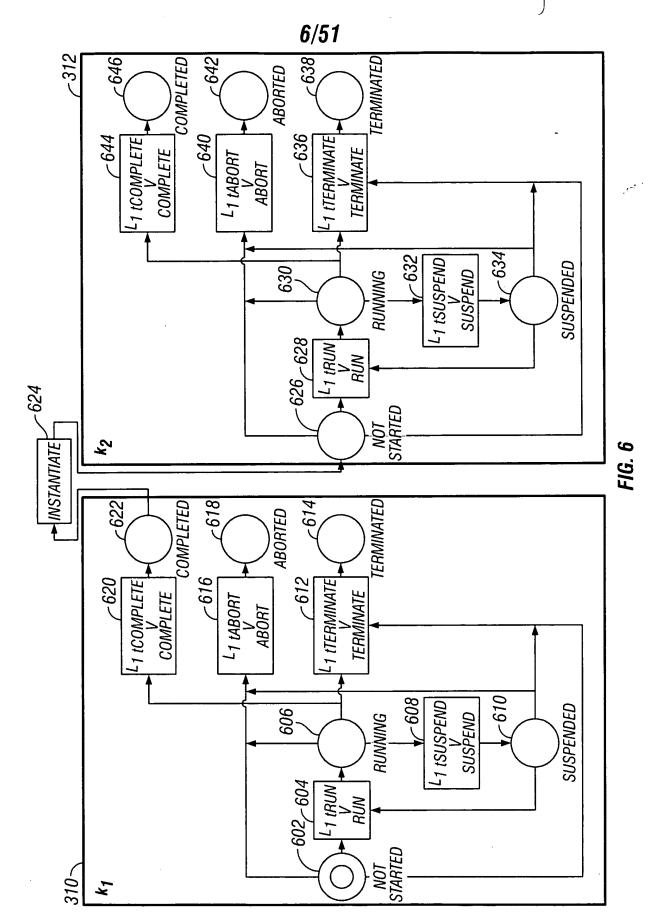


FIG. 5

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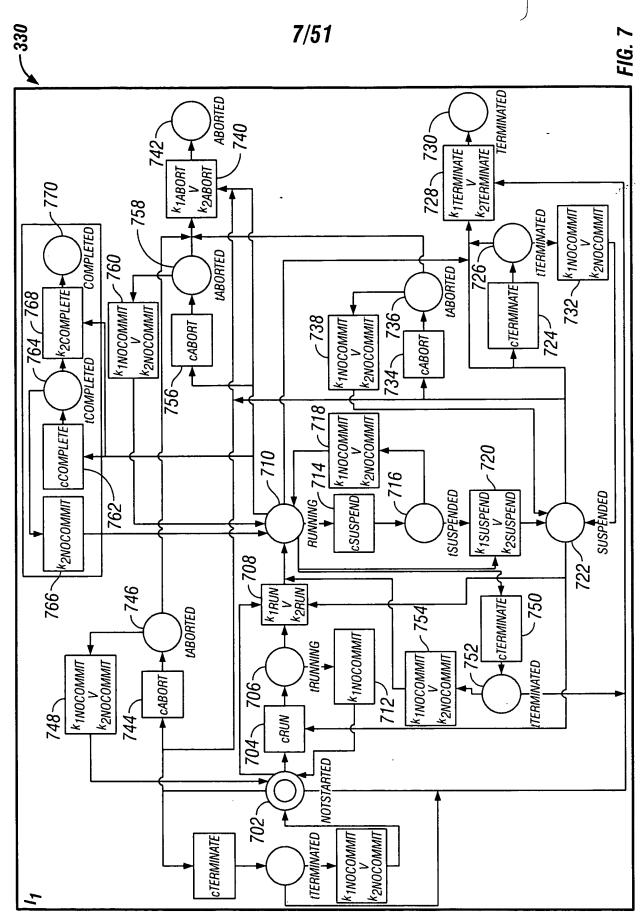


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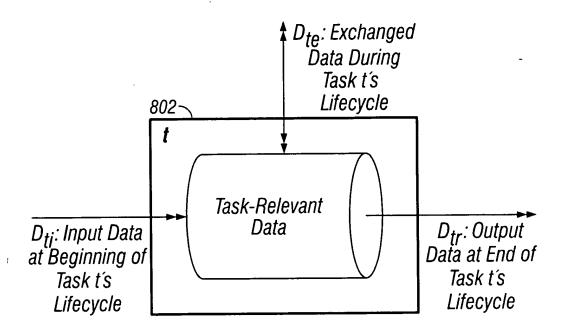


FIG. 8

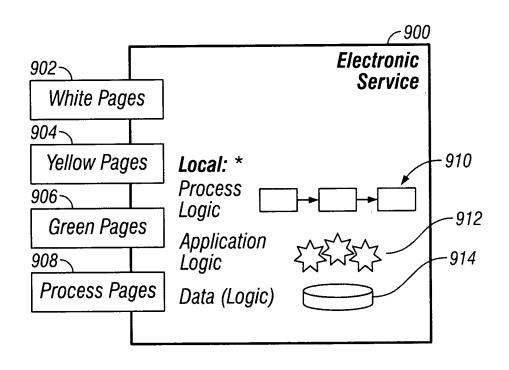
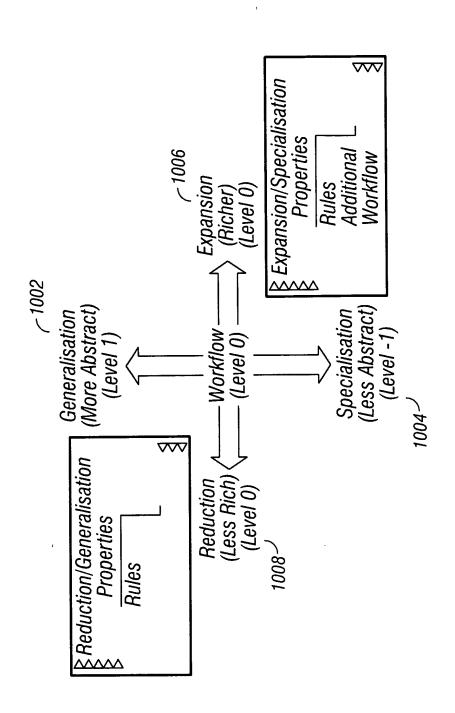


FIG. 9

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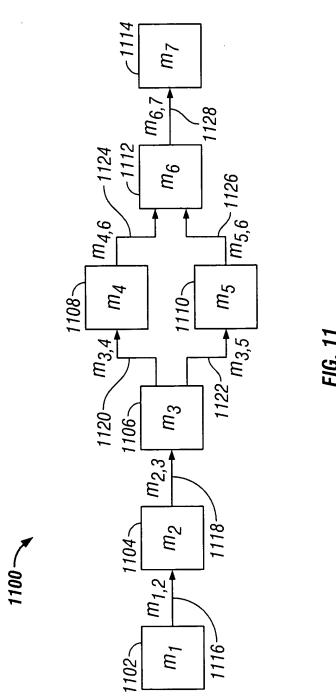
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			. –			11	/51		•			,)	
1200	,	m _{1,m}	m2,m	тт	0	0	0	m'im	m ₁ +1,m	m	m _{m-1,m}	mm,m	71208
	1-1	m1,m-1	m2,m-1	mm-1	0	0	0	m _{l,m-1}	$m_{l+1,m-1}$ $m_{l+1,m}$	mm-1	mm-1,m-1 mm-1,m	mm,m-1	-
	7204	m1,	m2,	m	0	0	0	m _{l,}	m/+1,	m	m.1,	m _{m,}	
	/+n	② M1,1+1	m2,1+1	m,1+1	0	0	0	m _{l,1+1}	m/+1,/+1	m,1+1	$m_{m-1,l+1}$ $m_{m-1,}$	m,1+1	
	1+n-1 1+n	0	0	0	П1,п	n2,n	n		0	0	0	0	
	:	0	0	0	n1,2 n1,	п2,	n	n _{n,}	0	0	0	0	
	1+1	0	0	0	n _{1,2}	n _{2,2}	n	$n_{n,2}$	0	0	0	0	-
	-	m _{1,1}	m2,1	m,I	n _{1,1} (5)	115,1	n		$m_{l+1,l} = 0$	<i>I</i> ,,	m _{m-1,1}	m,I	
9	Z :./	m _{1,}	m2,	m	0	0	0	т,	$m_{l+1,}$	m	m _{m-1,}	m _{m,}	
Column Indox (i)	2 (1) 120 2	m _{1,2}	m2,2	m2	0	0	0	m _{l,2}	1+n m1+1,1 m1+1,2 m1+1,	m2	r -1 $ m_{m-1,1} m_{m-1,2} m_{m-1,.}$	$m_{m,2}$	
ool awai	1 1	(1) (1),1	m2,1	m,1	0	0	0 1212 0	m1,1	m/+1,1	m1	m _{m-1,1}	mm,1	1206
2	Row-	1 (i) dex	2	•••	-	1+1	•••	1+n-1 (m,1	1+1	• • • •	1-1		

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1300 m+n	0	0	0	0	0	0	0	n,1,n	пп	$n_{n-1,n}$	n _{n,n}	1304
, 1-u+m	0	0	0	0	0	0	0	n _{1,n-1}	nn-1	Nn-1,n-1	n,n-1	
7.1306	0	0	0	0	. 0	0	0	п1,	n	Пп-1,	n _{n,}	
m+1	m _{1,1}	m2,1	m,	m _{l,1}	l'	m _{m-1,1}	m _{m,1}	11,1	n1	$n_{n-1,1}$	n, 1	
# E	т1,т	т2,т	mm	m _{l,m}	тт	m _{m-1,m}	т,т	0	0	0	m'im	
m-1	m _{1,m-1}	m2,m-1	mm-1	m _{l,m-1}	mm-1	т _{т-1,т-1}	m _{m,m-1}	0	0	0	т,т-1	FIG. 13
	m _{1,}	m _{2,}	m	m _{l,}	m	m _{m-1,}	m _{m,}	0	0	0	m,	
	m _{1,1}	m2,1	m,	l'lw	lm	m _{m-1,1}	m _{m,I}	0	0	0	l'Im	
7.1302	m _{1,}	m2,	m	m _{l,}	m	1-mm	m _{m,}	0	0	0	m _{l,}	
ex (j) 2	m _{1,2}	m2,2	m2	т,2	m2 m.	m _{m-1,2}	т,2 т _{т,}	0	0	0	m _{1,2}	
Column-Index (j)	D m _{1,1}	m2,1	m,1	m _{l,1}	m,1	m _{m-1,1} m _{m-1,2} m _{m-1,.}	$m \mid m_{m,1}$	0	0	0	(4) M1,1	1308
Row-	Index(i)	2	•••			m-1	ш	m+1		m+n-1 0	$\sqrt{m+n}$	7 1

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1408			14	FIG. 14			1406 /	
mm,m .(4)	•	m _{m,1+1}	m _{m,k}	mm,k-1	•	m _{m,2}	m, 1	_
•	•	•	10	1410	•	•	•	•
$m_{l+1,m}$	•	m _{l+1,l+1}	/m/+1,k	$m_{l+1,k-1}$	•	m _{l+1,2}	m/+1,1	k+1
m'i'm	•	m _{l,1+1}	9	m _{I,K-1}	•	m _{1,2}	(6) m _{l, 1}	1412 K
m _{k-1,m}	•	mk-1,1+1	m _{k-1,k}	m _{k-1,k-1}	•	m _{k-1,2}		K-1
•	•	•	•	•	•	•	•	•
т2,т	•	m2,1+1	m2,k	m2,k-1	•	m2,2	m2,1	2
m1,m	•	m1,/+1	т1,к	m _{1,k-1}	•	m _{1,2}	<i>J</i> m _{1,1}	7
r ~ 1404	•	k+1	×	k-1	•	(())	Column-Index (j) 1 1402 2	Row-
1400	,							

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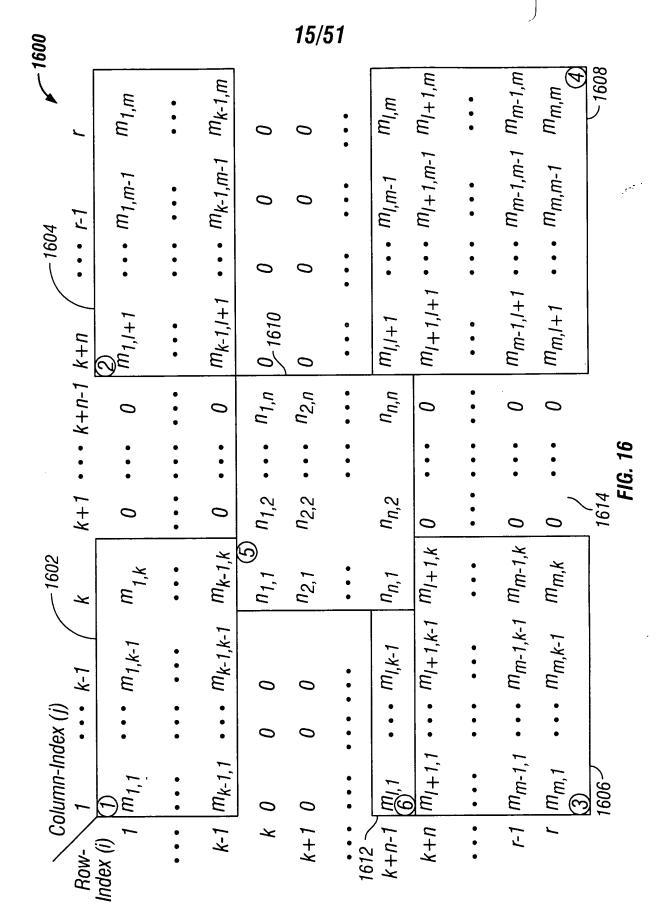
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1500		7	1504							() (1508	000	
*	## 1+1	m 1,k	m2,k	•	тк,к	•	m _{l,k}	•	m _m ,		-	
	ш	m1,m	т2,т	•	тк,т	•	m _{l,m}	•	т,т	m,ım		
	•	•	•	•	•	•	•	•	•	•		
	1	m _{1,1}	m2,1	• • •	m _{K,I}	• • •	m _{I,I}	• • •	$m_{m,l}$	n _{l,l}		
	•	•	•	•	•	•	•	•	•	•		FIG. 15
\	X	m _{1,k}	m2,k	•	тк,к	•	m _{I,k}	•	m _{m,k}	m _{I,k}		
	1502	•	•	•	•	•	•	•	•	•		
(;)	2 (I)	m _{1,2}	m2,2	•	m _{k,2}	•	m _{1,2}	•	m _{m,2}	m _{1,2}		
in a constant	Columnin-Index (I) $\frac{2}{1}$	(1) III _{1,1}	m2,1	•	mk,1	•	m _{l,1}	•	m _{m,1}	(3) M,1	1506	
,	Row-	Index (i) 1	2	•	×	•	_	:	ш	m+1		

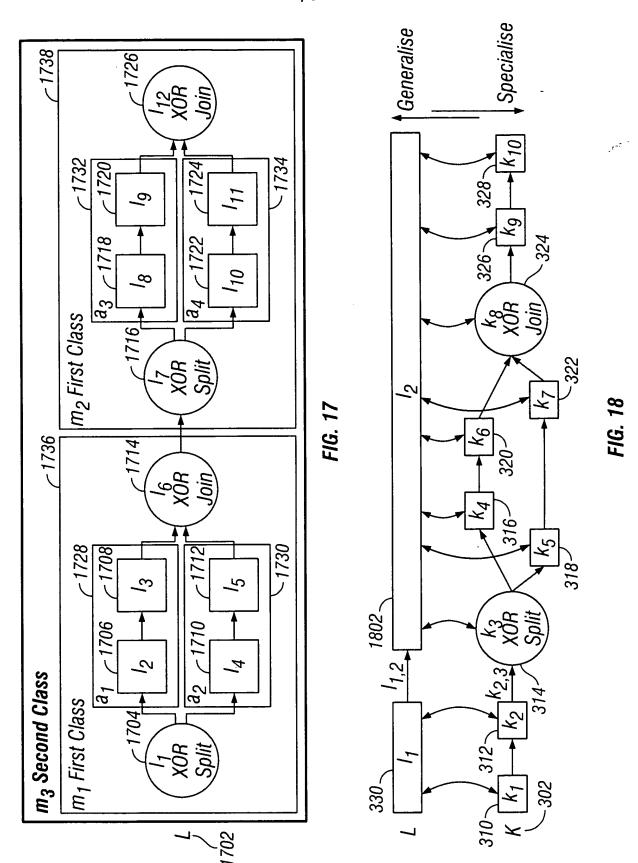
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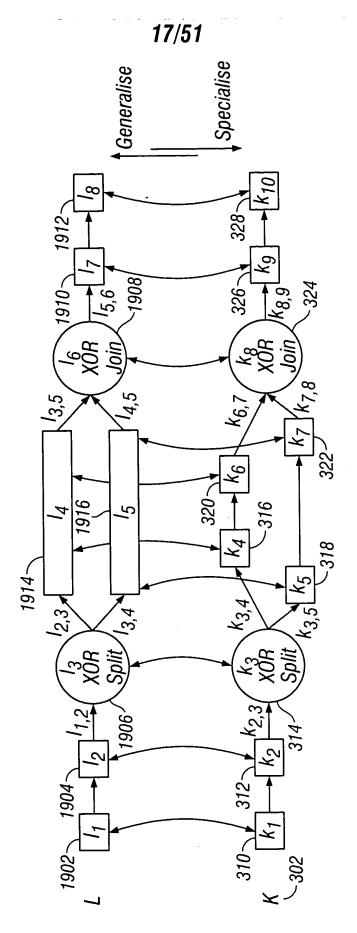
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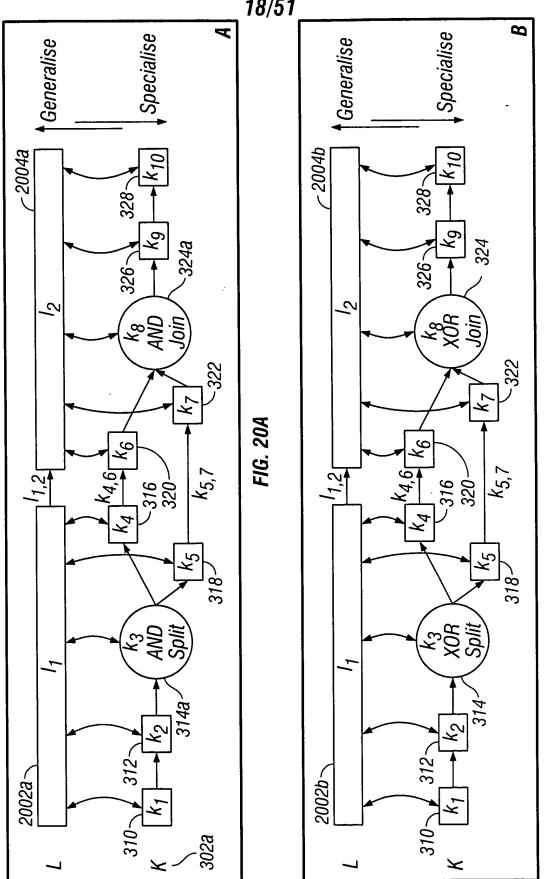
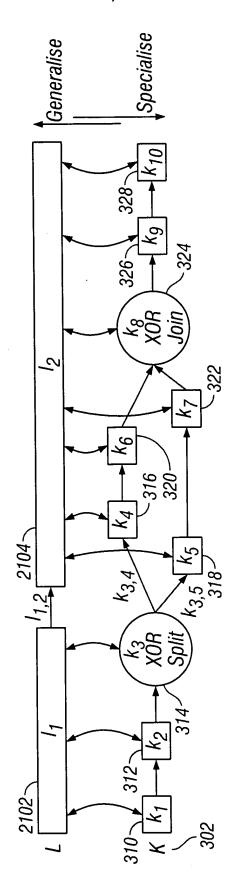


FIG. 20B

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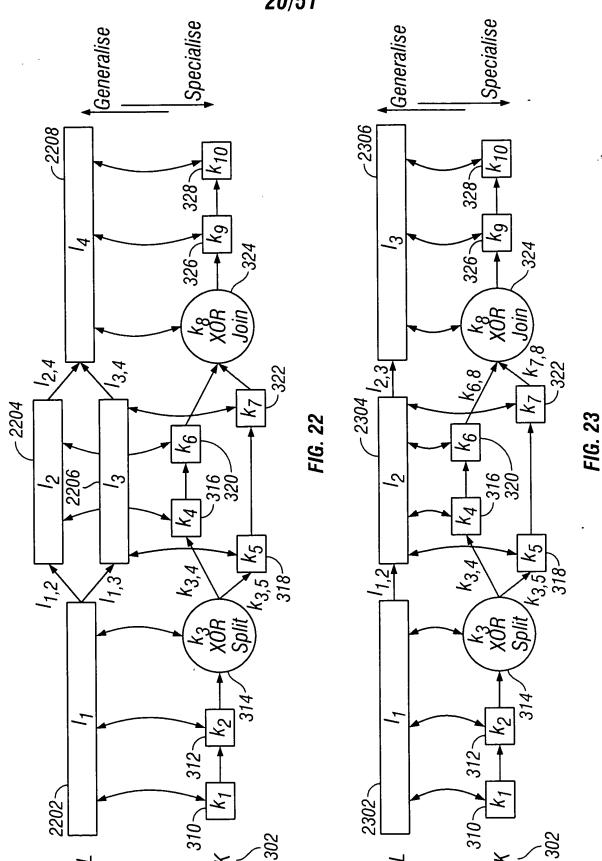
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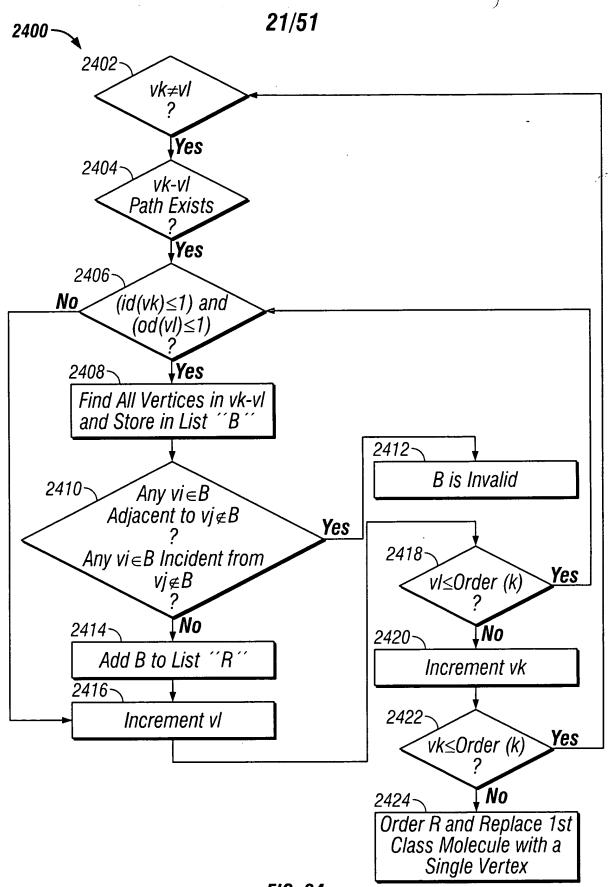


FIG. 24

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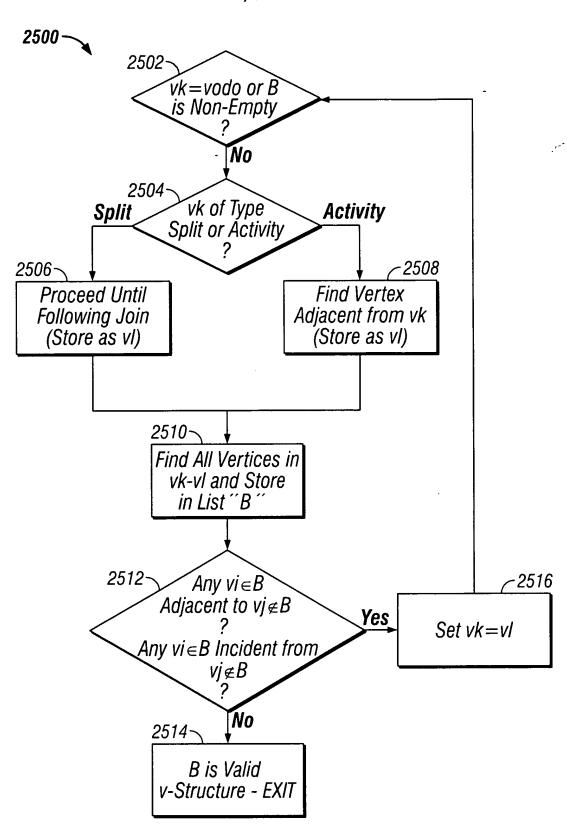


FIG. 25

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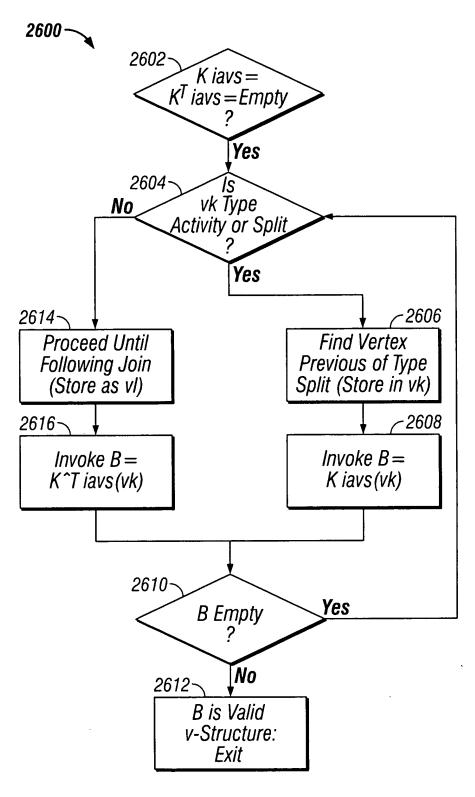
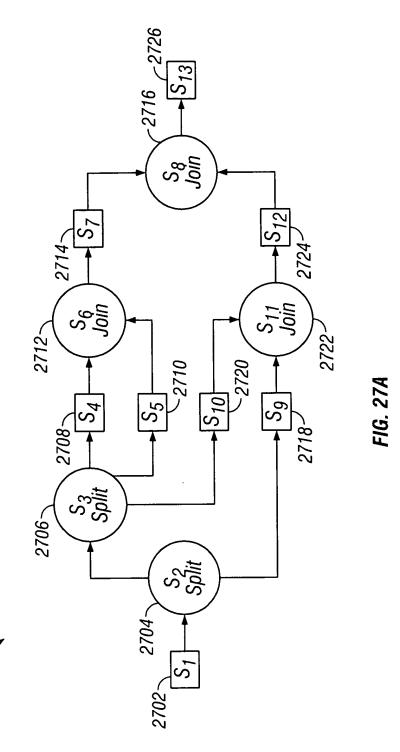


FIG. 26

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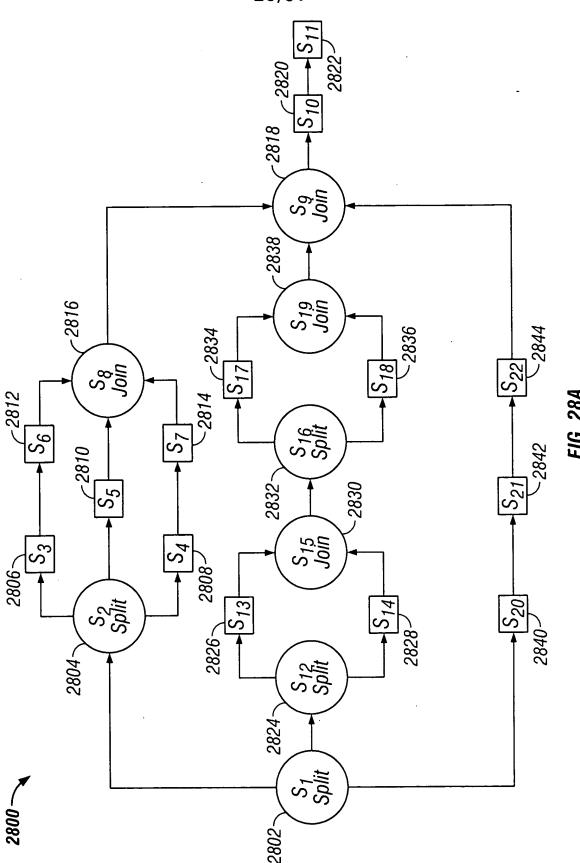
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N_{k}	$Siavs_{e}(v_{k})$
S ₁	{\$1,\$2,\$3,\$4,\$5,\$6,\$7,\$8,\$9,\$10,\$11,\$12}
\$2	<i>{\$2,53,54,55,56,57,58,59,510,511,512}</i>
S ₃	{\$2,53,54,55,56,57,58,59,510,511,512}
54	{\$2,53,54,55,56,57,58,59,510,511,512}
S_5	{\$2,53,54,55,56,57,58,59,510,511,512}
S ₆	{\$2,53,54,55,56,57,58,59,510,511,512}
S ₇	{\$2,53,54,55,56,57,58,59,510,511,512}
S ₈	{S ₂ ,S ₃ ,S ₄ ,S ₅ ,S ₆ ,S ₇ ,S ₈ ,S ₉ ,S ₁₀ ,S ₁₁ ,S ₁₂ }
Sg	{S ₂ , S ₃ , S ₄ , S ₅ , S ₆ , S ₇ , S ₈ , S ₉ , S ₁₀ , S ₁₁ , S ₁₂ }
. S ₁₀	{S ₂ , S ₃ , S ₄ , S ₅ , S ₆ , S ₇ , S ₈ , S ₉ , S ₁₀ , S ₁₁ , S ₁₂ }
S ₁₁	{\$2,53,54,55,5 ₆ ,5 ₇ ,5 ₈ ,5 ₉ ,5 ₁₀ ,5 ₁₁ ,5 ₁₂ }
S12	{\$2,53,54,55,56,57,58,59,5 ₁₀ ,5 ₁₁ ,5 ₁₂ }
S ₁₃	{S ₂ ,S ₃ ,S ₄ ,S ₅ ,S ₆ ,S ₇ ,S ₈ ,S ₉ ,S ₁₀ ,S ₁₁ ,S ₁₂ ,S ₁₃ }

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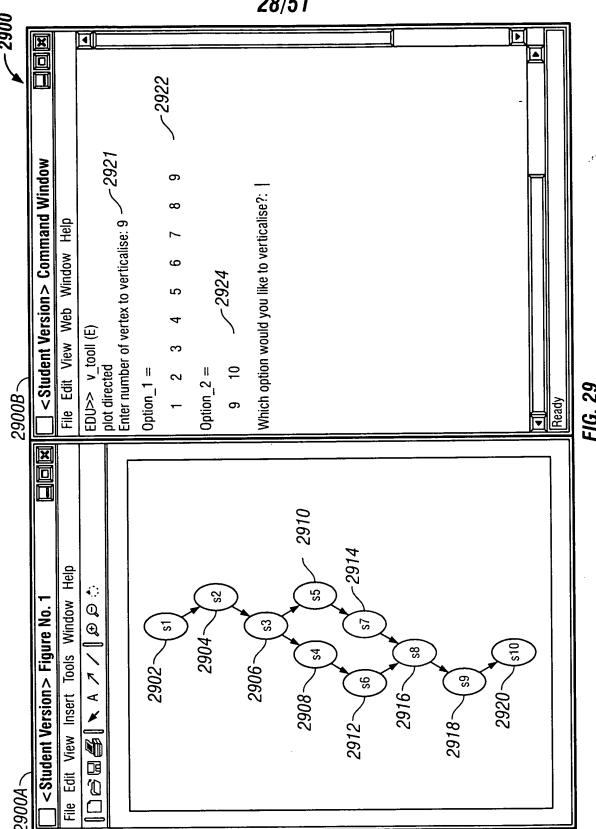
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$V_{oldsymbol{ u}}$	Siavs _p (V _k)
S,	{\$1.52.52.54.56.56.56.57.58.50.512.512.516.516.517.518.510.520.520.521.522}
	10 0 0 0 0 0 0 0 0 12 10 14 10 10 11 10 10 20 E1 EE
\$2	<i>{</i> 52,53,54,55,56,57,58 <i>}</i>
53	{S ₃ ,S ₆ }
54	{S4.57}
S ₅	<i>{S₂,S₃,S₄,S₅,S₆,S₇,S₈}</i>
Se	{S ₃ ,S ₆ }
57	{S4.S7}
Sg	<i>{S₂,S₃,S₄,S₅,S₆,S₇,S₈}</i>
Sg	{S1,S2,S3,S4,S5,S6,S7,S8,S9,S12,S13,S14,S15,S16,S17,S18,S19,S20,S21,S22}
S ₁₀	{\$1,\$2,\$3,\$4,\$5,\$6,\$7,\$8,\$9,\$10,\$12,\$13,\$14,\$15,\$16,\$17,\$18,\$19,\$20,\$21,\$22},
	{S ₁₀ , S ₁₁ }
511	{S ₁₀ ,S ₁₁ }
S ₁₂	<i>{S₁₂,S₁₃,S₁₄,S₁₅}</i>
513	{S ₁₂ ,S ₁₃ ,S ₁₄ ,S ₁₅ }
S ₁₄	{S ₁₂ ,S ₁₃ ,S ₁₄ ,S ₁₅ }
S ₁₅	{S ₁₂ ,S ₁₃ ,S ₁₄ ,S ₁₅ }
S ₁₆	{S ₁₆ ,S ₁₇ ,S ₁₈ ,S ₁₉ }
S ₁₇	{S ₁₆ ,S ₁₇ ,S ₁₈ ,S ₁₉ }
S ₇₈	{S ₁₆ ,S ₁₇ ,S ₁₈ ,S ₁₉ }
S ₇₉	{S ₁₆ ,S ₁₇ ,S ₁₈ ,S ₁₉ }
\$20	{\$2 ₀ ,\$2 ₁ }
521	{\$2 ₀ ,\$2 ₁ },{\$2 ₁ ,\$2 ₂ }
\$22	{S ₂₁ ,S ₂₂ }

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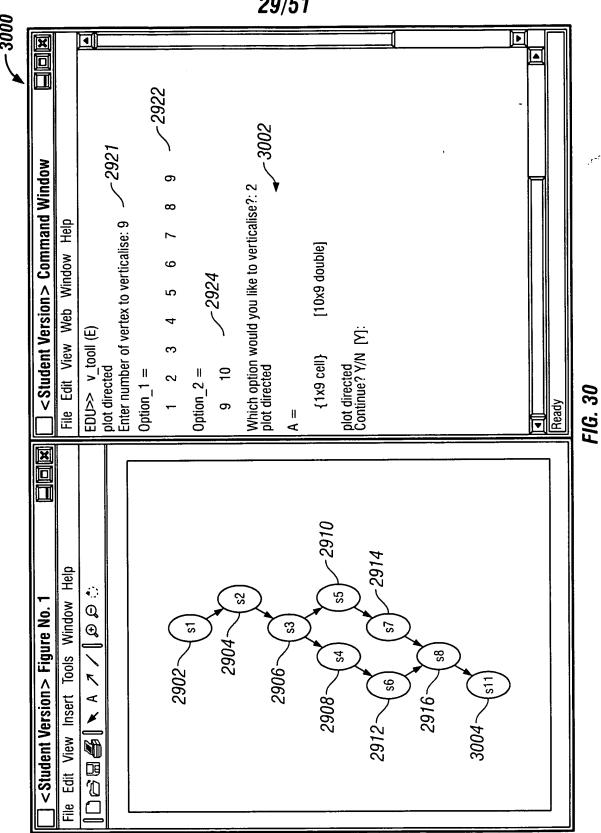
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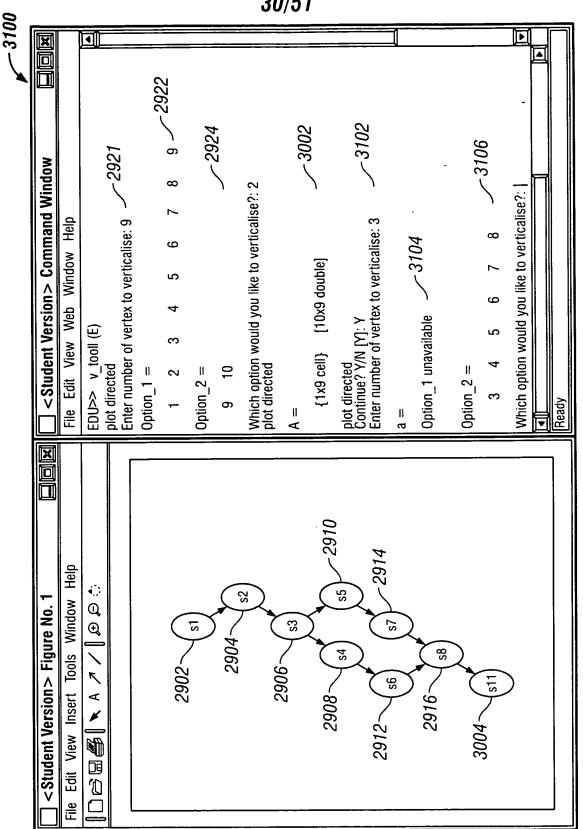
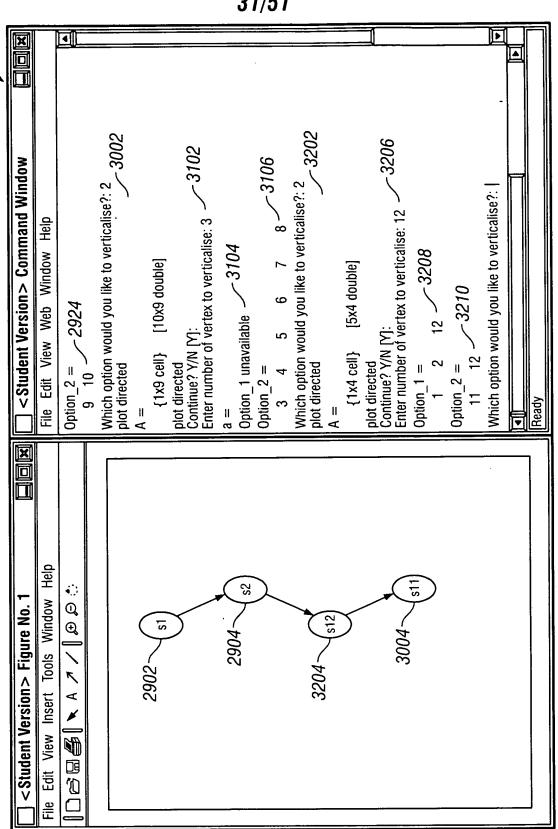


FIG. 31

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TRANSFORMATIONS BETWEEN PRIVATE AND SHARED

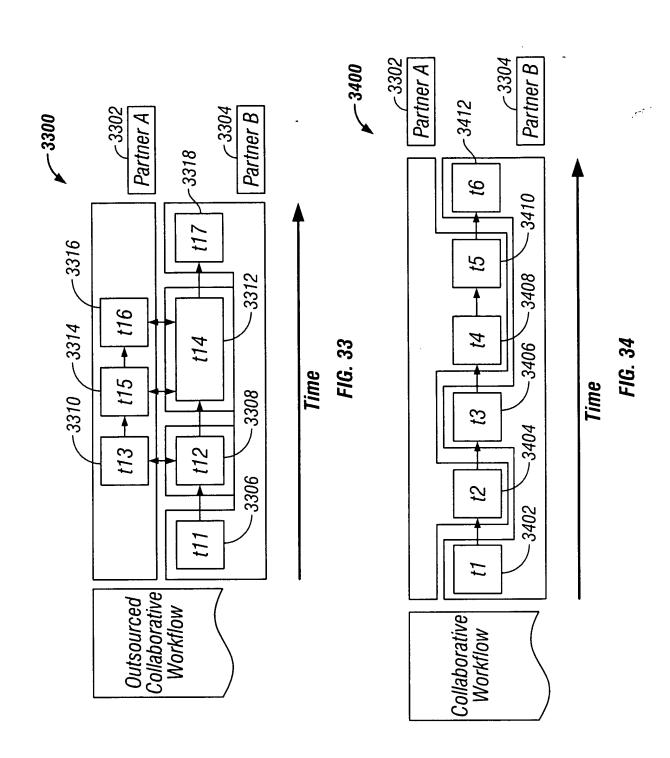
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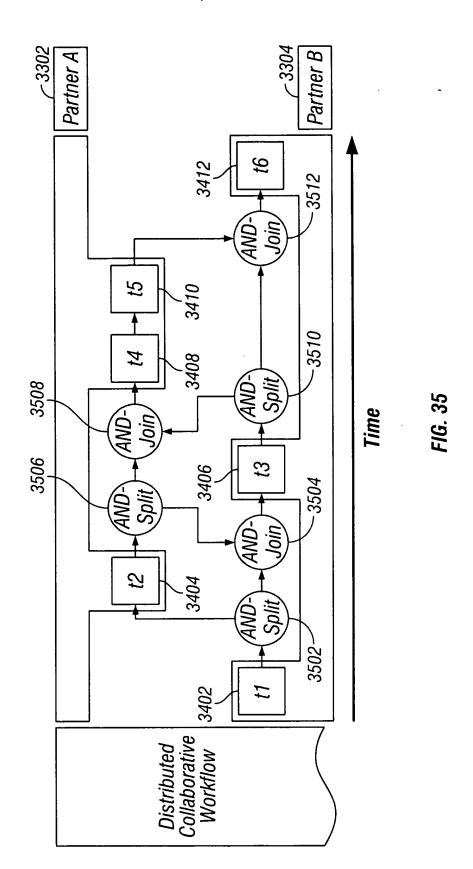
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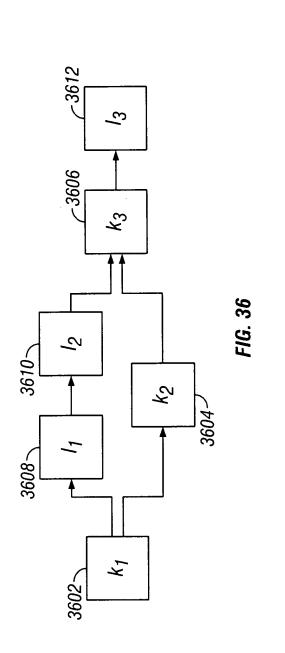
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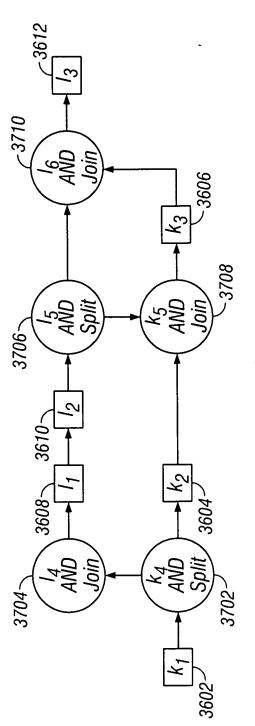
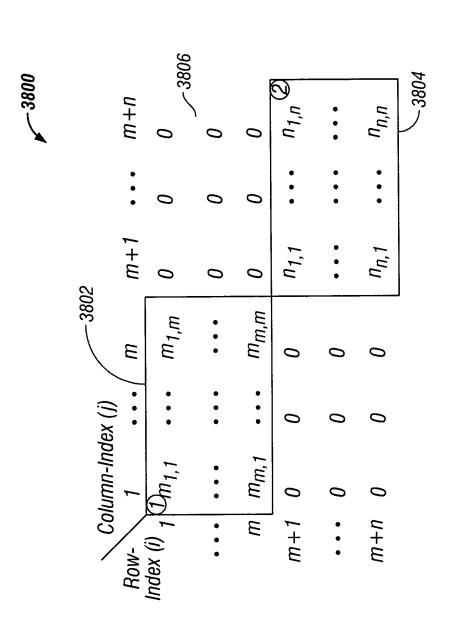


FIG. 37

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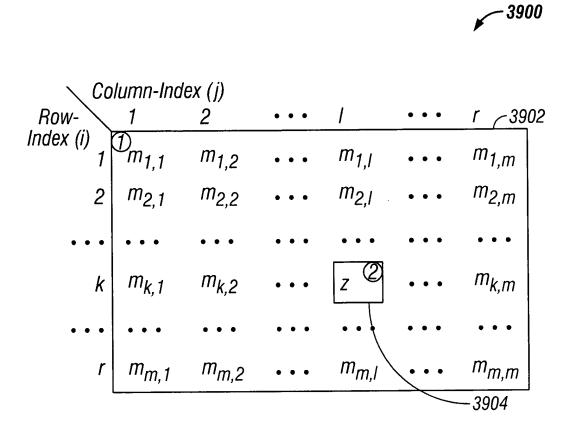


FIG. 39

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4004	m _{1,k}	m2,k	•	m _{k,k}	•	m _{m,k}	0	
Œ	т1,т	т2,т	•	m _{k,m}	•	m _{m,m}	0	
•	•	•	•	•	•	•	0	9
4008 K	0	0	0	0	0	0	1	74006
•	•	•	•	•	•	• • •	0	
Column-Index (j) 4002 v- 1 2	m _{1,2}	M2,2	•	m _{k,2}	•	m _{m,2}	0	
lumn-Inde, 1	$\mathfrak{D}_{\mathfrak{m}_{1,1}}$	m2,1	•	m _{k,1}	•	m, 1	0	
Co. Row-	Index (i) 1	8	•	×	•	Ш	1	_

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-4100					~4106				-
4	_	0	0	0	1 3	0	0	0	
	Ш	m1,m	m2,m	•	0	• •	m,m	$m_{k,m}$	4104
	•	•	•	•	0	•	•	•	
	×	m _{1,k}	m _{2,k}	•	0	•	$m_{m,k}$	$m_{k,k}$	
		•	•	•	0	•	•	•	
	κ (j) 2 _ 4102 • • •	m1,2	m2,2	•	0	•	m _{m,2}	т _{k,2}	
	umn-Index 1	1 1 1 1	m2,1	•	0	•	m _{m,1}	m _{k,1}	
	Row- 1 2	Index (I)	2	•	*	•	Ш		J

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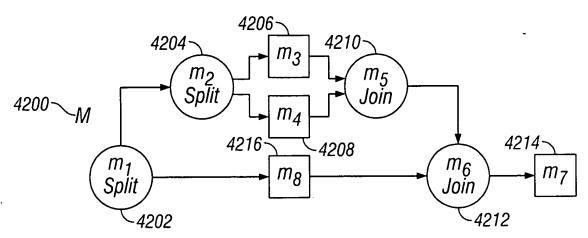


FIG. 42

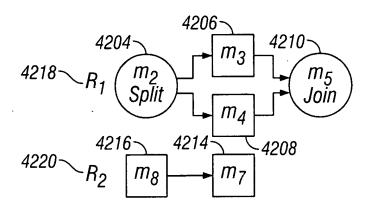


FIG. 42A

$$4222 \xrightarrow{R_1} \begin{array}{c} 4206 \xrightarrow{4214} \\ m_3 \xrightarrow{m_7} \end{array}$$

$$4224 \xrightarrow{R_2} \begin{array}{c} m_4 \\ 4208 \\ 4216 \end{array}$$

FIG. 42B

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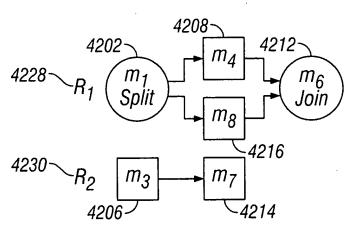


FIG. 42C

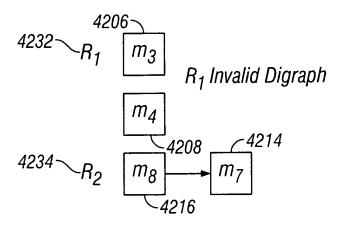


FIG. 42D

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r _4304	m _{1,m}	m2,m	•	mk-1,m	Mk+1,m	$m_{k+2,m}$	•	mm,m <u>(4)</u>
•	•	•	•	•	• • •	•	•	•
k+1	m1,k+2	m2,k+2	•	mk-1,k+2	Mk+1,k+2	Mk+2,k+2	•	mm,k+2
K	m1,k+1	M2,k+1	•	$m_{k-1,k+1}$	$m_{k+1,k+1}$ $m_{k+1,k+2}$	$m_{k+2,k+1}$ $m_{k+2,k+2}$	•	m,k+1
k-1	m _{1,k-1}	M2,k-1	•	m _{k-1,k-1}	Mk+1,k-1	$m_{k+2,k-1}$	•	m _{m,k-1}
•	•	•	•	•	•	•	•	•
κ (j) 2 _4302 •	m _{1,2}	<i>m</i> 2,2	•	m _{k-1,2}	m _{k+1,2}	m _{k+2,2}	•	m,2
Column-Index (j)	$m_{1,1}$	m2,1	•	m _{k-1,1}	M _{k+1,1}	$m_{k+2,1}$	•	mm, 1 4306
Row-		2	•	k-1	X	k+1	•	

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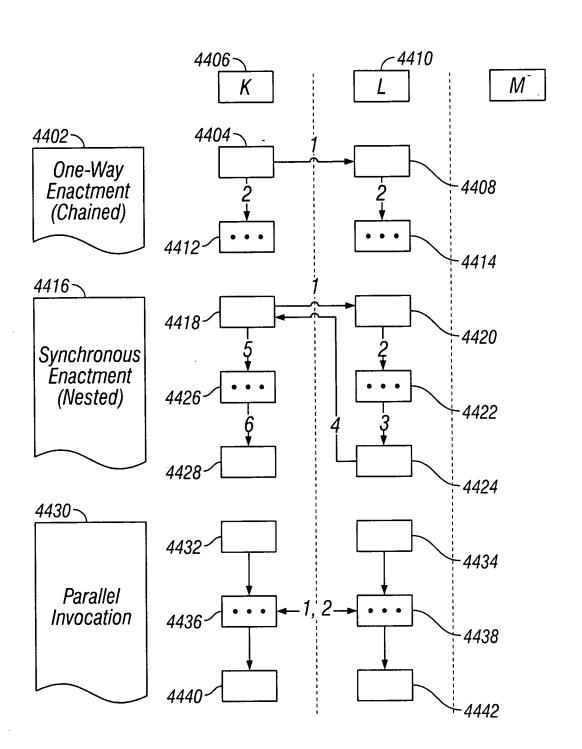
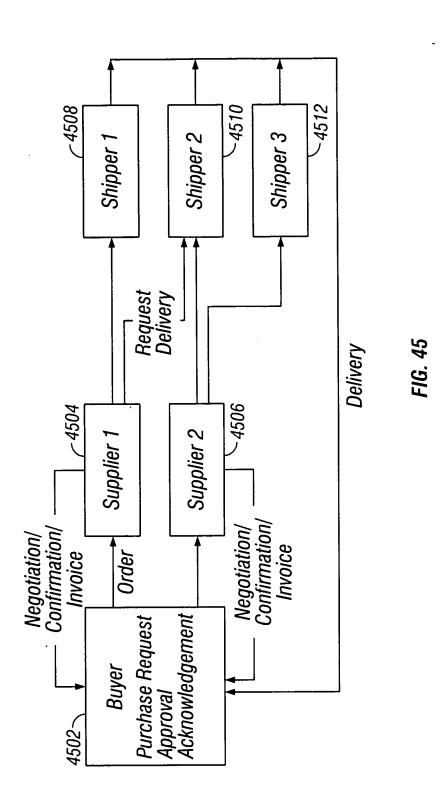


FIG. 44

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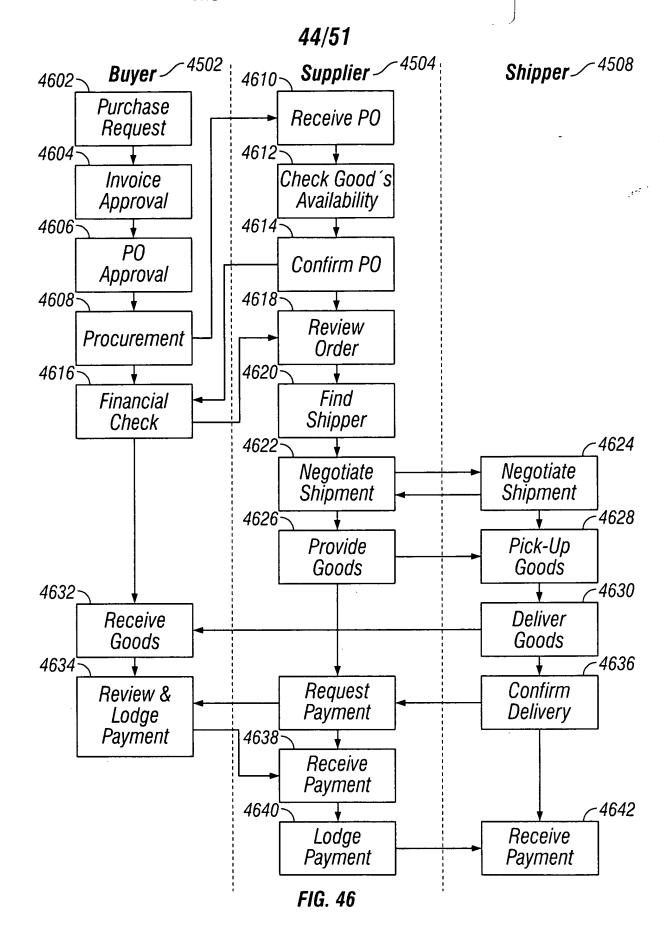


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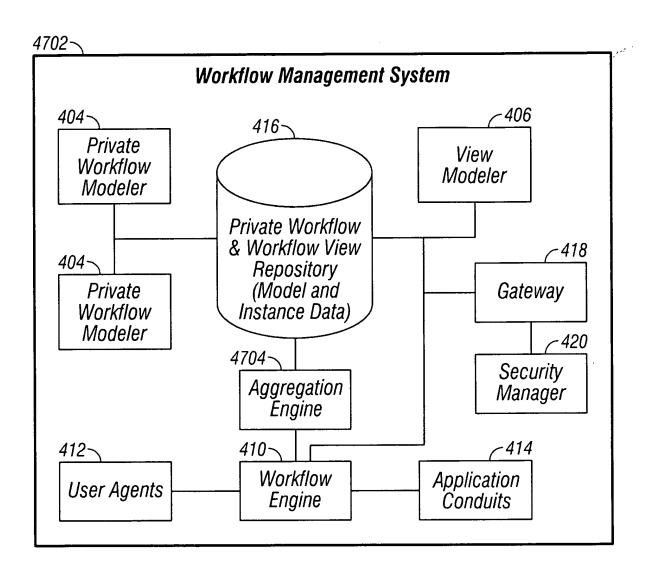


FIG. 47

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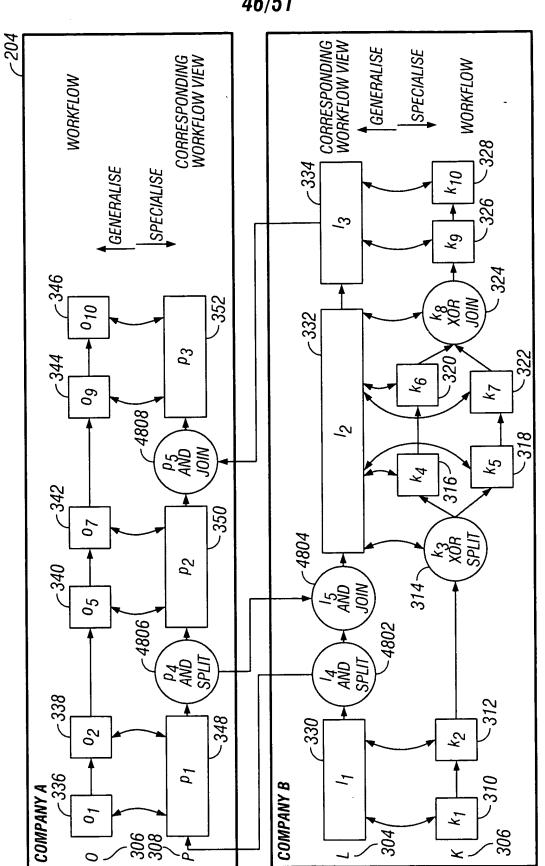
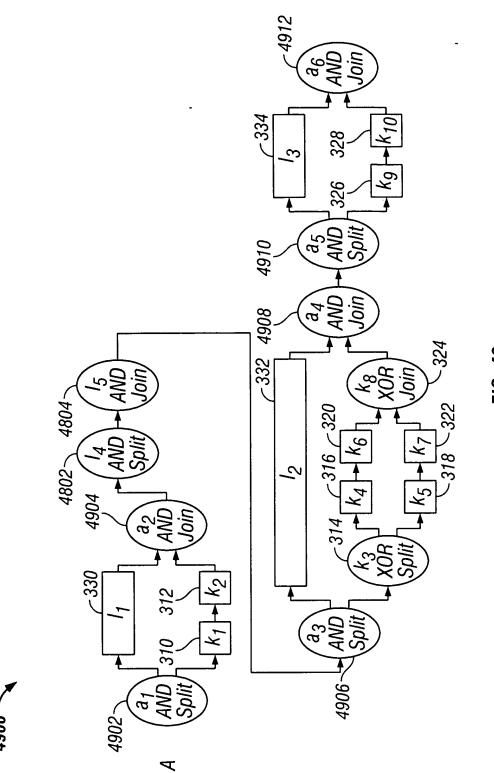


FIG. 48

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WORKFLOWS 48/51 5000 -5002 Receive Request to Change State of Task 5004 Is State Change No Request Valid Yes 5006-Task Changes State 5008-Task Notifies Associated View Task of State Change 5010-Should 5012-Associated View No Check Rules Task Change State Yes 5014~ View Task Changes State 5016 5018 Are No State Transitions Transition is Rolled Back Legal Yes 5020~ Transition is Committed and Changes are Persisted 5022 End FIG. 50

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WORKFLOWS 49/51 5100-5102 Receive Request to Change State of View Task 5104-Is State Change No Request Valid Yes 5106-View Task Changes State 5108~ View Task Notifies Associated Task(s) in State Open´´ of Stàté Change 5110 5112 Should No Associated Task(s) Check Rules Change **IYes** 5114-Task Changes State 5116 5118 Are No State Transitions Transition is Rolled Back Legal Yes 5120-Transition is Committed and Changes are Persisted 5122 End FIG. 51

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WORKFLOWS *50/51* 5200 -5202-Assign Workflow View to Aggregate Workflow 5204-Consider View Task"n, Beginning with n = 15206 Is Yes View Task n a Routing Task ,No 5208-Insert Pair of Aggregation Routing Tasks Around Fig. 53 View Task n 5221-Identify Workflow Task(s) From Corresponding to View Fig. 53 Task n 5212-Insert Dependency from AND-Split to (First) Workflow Task 5214~ Insert Dependency to AND-Join from (Last) Workflow Task 5216-Is View Task n No the Last View Task Yes 5218-End FIG. 52

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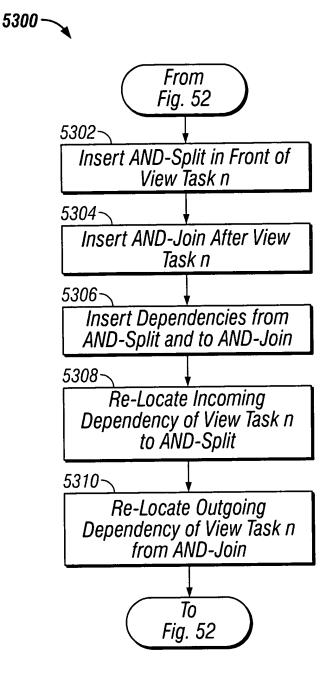


FIG. 53